LAND APPLICATION SITE CHARLES E KUNATH, JR SITE LUCEK 1-6 LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND AP	PLICATION AGREEMENT	- BIOSOLIDS AND IND	USTRIAL RESIDUALS
here as "Landowner", and remains in offset until it is the Landowner in the eve individual parcels identifie	greement is made on in as I Recyc Systems, Inc. terminated in writing by either nt of a sale of one or more par d in this agreement changes, ceive blosolids or industrial re	eferred to here as the "Per party or, with respect to the cels, until ownership of all p those parcels for which own	E. Wwo.k.Cr referred to mittee". This agreement ose parcels that are retained by parcels changes. If ownership of nership has changed will no int.
Landowner: The Landowner is the ow the agricultural, silvicultur attached as Exhibit A.	ner of record of the real prope at or reclamation sites identifie	ty located in He LAW! d below in Table Vand Idea	Virginia, which includes ntiffed on the tax map(s)
Table 1.: Parcels a	uthorized to receive biosolids,	water treatment residuals o	r other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Pargel ID
	41 A 34 41 A 37	AL A.38	42 4 43 41 A ID
3 Additional percels containing U	and Application Sites are identified on	Supplement A (chack if applicable	
In the event that the Land within 36 months of the le	the Landowner is the sole own the Landowner is one of multip towner sells or transfers all or please test date of blosolids applications are or transferse of the applica-	ie owners of the properties part of the property to which on, the Landowner shall:	identified herein. biosolids have been applied
ater than the date 2. Notify the Permitt	of the property transfer; and se of the sale within two week	s following property transfer	
notify the Permittee imme	her agreements for land applic diately if conditions change su of this agreement becomes in	th that the fields are no lon	ner available to the Permittee
agricultural sites identified inspections on the land id	entified above, before, during e mpliance with regulatory requ	Andowner also grants per or after land application of p rements applicable to such	mission for DEQ staff to conduct
	ler treatment residuels Fr		Other industriel studges
Charles Kur	ath Tr. Chanles	Kunath A. A	74 Ontario Ad.
Permittee: Recyc Systems, Inc., the manner authorized by the VP	Permittee, agrees to posty bloss	Adds and/or industrial residuals	rollfied in the outriest messagement
The Permittee agrees to notif specifically prior to any partic	y the Landowner or the Landown ular epplication to the Landownes	er's designee of the proposed 's land. Notice shall include th	schedule for land application and se source of residuels to be applied.
O I reviewed the document(s document(s) evaluable to DEC) assigning signatory authority to 2 for review upon request. (Do no	the person signing for landown check this box if the landowner s	nor above. I will make a copy of this igns this ogreement)
Strub .	Dulo	PO Box 562 Re	eminaton. Virginia 22734

Rov 0/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee:		Lynenburg	
Landowner: _	Charles Kungth Jr.		

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals
 applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan
 developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature 10/22/14/
Date

Farm Operator Signature / 174 / 174 / 174 / 185 & Phone Number

(434) 136-835, cell-(434) 390-7720

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS
A. This land application agreement is made on to between where as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no onger be authorized to receive biosolids or industrial residuals under this agreement.

or reciamation sites identified	ceated in ACVCLA Virginia, which includes elow in Table 1 and identified on the tax map(s) er treatment residuals or other industrial sludges Tax Parcel ID Tax Parcel ID AL ALO							
orized to receive biosolids, v	vater treatment residuals or o	ther industrial sludges						
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID						
		ALAVO						
41 A 32	44 # 34	A2 A43						
	orized to receive biosolids, v <u>Tax Parcel ID</u>	orized to receive biosolids, water treatment residuals or o Tax Parcel ID Tax Parcel ID						

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- The Landowner is the sole owner of the properties identified herein.
- The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

- 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
- 2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

	- •	• • • • • • • • • • • • • • • • • • • •	
Class B biosolids	Water treatment resid	uals Food processing waste	Other industrial sludges
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	Yes No
		OK	1974 Ontario Rd.
Jean J. Ku		in Kunath	1974 Ontario Rd. Kevsuille Va. 23947
Landowner - Printed Na	ame, Title	ature C	Mailing Address & Phone Number
D			CH343736-8357
Permittee:	- 	o apply biosolids and/or industrial resid	sell- (434) 390-7715
Recyc Systems, Inc	<u>C</u> , the Permittee, agrees t	io apply biosolids and/or industrial resid	duals on the Cahdowner's land in the
manner authorized by t	the VPA Permit Regulation	and in amounts not to exceed the rate	s identified in the nutrient management
plan prepared for each	land application field by a	person certified in accordance with §10	0.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Permittee – Authorized Representative

Signature

PO Box 562 Remington, Virginia 22734

Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee:	Recyc Systems, Inc	County or City: Luneabura
Landowner: _	Jean Ji Kunath	

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals
 applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan
 developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three
 years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45
 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature 10/22/14

Landowner's Signature

Farm Operator Signature 1974 On Faria Rele | Key Struille Va. 2394

(434) 736-8357 (434) 390-7720

Rev 9/14/2012

Page 2 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND AP	PLICATION AGREEMENT	- BIOSOLIDS AND IND	USTRIAL RESIDUALS
here as "Landowner", and remains in offset until it is the Landowner in the eve individual parcels identifie	greement is made on in as I Recyc Systems, Inc. terminated in writing by either nt of a sale of one or more par d in this agreement changes, ceive blosolids or industrial re	eferred to here as the "Per party or, with respect to the cels, until ownership of all p those parcels for which own	E. Wwo.k.Cr referred to mittee". This agreement ose parcels that are retained by parcels changes. If ownership of nership has changed will no int.
Landowner: The Landowner is the ow the agricultural, silvicultur attached as Exhibit A.	ner of record of the real prope at or reclamation sites identifie	ty located in He LAW! d below in Table Vand Idea	Virginia, which includes ntiffed on the tax map(s)
Table 1.: Parcels a	uthorized to receive biosolids,	water treatment residuals o	r other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Pargel ID
	41 A 34 41 A 37	AL A.38	42 4 43 41 A ID
3 Additional percels containing U	and Application Sites are identified on	Supplement A (chack if applicable	
In the event that the Land within 36 months of the le	the Landowner is the sole own the Landowner is one of multip towner sells or transfers all or please test date of blosolids applications are or transferse of the applica-	ie owners of the properties part of the property to which on, the Landowner shall:	identified herein. biosolids have been applied
ater than the date 2. Notify the Permitt	of the property transfer; and se of the sale within two week	s following property transfer	
notify the Permittee imme	her agreements for land applic diately if conditions change su of this agreement becomes in	th that the fields are no lon	ner available to the Permittee
agricultural sites identified inspections on the land id	entified above, before, during e mpliance with regulatory requ	Andowner also grants per or after land application of p rements applicable to such	mission for DEQ staff to conduct
	ler treatment residuels Fr		Other industriel studges
Charles Kur	ath Tr. Chanles	Kunath A. A	74 Ontario Ad.
Permittee: Recyc Systems, Inc., the manner authorized by the VP	Permittee, agrees to posty bloss	Adds and/or industrial residuals	rollfied in the outriest messagement
The Permittee agrees to notif specifically prior to any partic	y the Landowner or the Landown ular epplication to the Landownes	er's designee of the proposed 's land. Notice shall include th	schedule for land application and se source of residuels to be applied.
O I reviewed the document(s document(s) evaluable to DEC) assigning signatory authority to 2 for review upon request. (Do no	the person signing for landown check this box if the landowner s	nor above. I will make a copy of this igns this ogreement)
Strub .	Dulo	PO Box 562 Re	eminaton. Virginia 22734

Rov 0/14/2012

Recyc Systems, Inc

Charles E. Kunath, Jr. Site

County	Owner	Operator	FSA Tract No.	Recyc Field No.	Acres	Date of Last Application
Lunenburg	Charles E.	Charles E.	T3718	LUCEK 1	21.5	
	Kunath, Jr.	Kunath, Jr.	Field 2,4			
			T3718	LUCEK 2	25.7	
			Field 1			
			T3731	LUCEK 3	3.5	
			Field 1			
			T3731	LUCEK 4	25.8	
			Field 1			
			T15781	LUCEK 5	7.1	
			Field 3			
			T15781	LUCEK 6	13.3	
			Field 2			

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Env	ironmentally	Sensitive S	Soils		Tax	FSA
Identifficatition	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	Map #	Tract#
LUCEK 1	21.5	_	_	-	<u>-</u>	CM07	TM41A,P37, 38	3718
LUCEK 2	25.7		-	_	<u>-</u>	CM07	TM41A,P37, 38	3718
LUCEK 3	3.5	-	_	-	_	CM07	TM41A,P34	3731
LUCEK 4	25.8	-		-		CM07	TM41A,P34	3731
LUCEK 5	7.1	-	-	-	<u></u>	CM01	TM41A,P32	15781
LUCEK 6	13 .3	12B	-	-	_	CM01	TM41A,P32	15781
								·
TOTAL ACRES IN SITE	96.9							

Report Number:

R09183-0064

A&L Eastern Laboratories, Inc.

Account Number:

70594

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC.

POB 562

REMINGTON, VA 22734

Grower: C E KUNATH JR/LUCEK

LUNENBURG

Submitted By: J B CRENSHAW

Farm I D: Field I D:

SOIL ANALYSIS REPORT

Page: 1 Date Received: 7/2/2009

Date of Analysis: 7/3/2009

Date of Report: 7/7/2009

Analytical Method(s): Mehlich III

·			Organi	c Matter	84 E & E	Phospho	rus	Potassilum	Magnesium	Calciu	m	Sodiu	m	1.5	pH	Acidity	C.E.C.
Sample Number	Lab Numbe	0	& EN	ENIR brow/A Rea	AND DESCRIPTION	vailable m RaRate	Reserve ppm RaRate	K ppm RaRate	MG ppm RaRate	CA ppm	Rate	NA ppm F	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	13225	8	37 11	1111 M	М 3	5 M M		80 L L	1775 H H	913	MM			5.3	6.7	28	9.0
2	133256	3 :	35 11	1100 M	M 4	7 M M	ons A	99 M M	11222 I/I M	638	_ L			5.2	6.7	2.3	6.8
3	133285	•	4.2 12	1233 M	M 2	2 L L		87 M M	11662 H H	718	LL			5.3	6.7	23	7.5
4	133286	•	4.2 12	1244 M	M 5	4 H H		136 H H	11664 H H	674	- L			5.4	6.7	2.0	7.1
5	11332286	1	28 9	96 M	M 2	4 L L	- 74	64 L L	11557 H H	663	_ L			5.4	6.7	11.9	6.7
Samulla		Percen	t Base S	Saturation		Nitrate	Sulfur	Zinc	Manganese	Iron	C	opper	Bor	on	Soluble	Chloride	Aluminum
Sample Number	K %	Mg ‰	Ca %	Na %	H %	NO3-N ppm Rate	SO4-S ppm Rate	ZN ppm Rate	MN ppm Rate	FE ppm Rate	CONTRACTOR ISSUED	CU m Rate		B Rate	Salts ms/cm Rate	CL ppm Rate	AL ppm Rate
1	2.3	161	5005		311.0								2011				
2	3.7	150	477.1		341												
3	3.0	180	480		311.0												
4	4.9	193	477.5		283						18:						
5	2.5	1996	496		283												-

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:
A & L EASTERN LABORATORIES, INC.

Paul Chu, Ph.D.

Report Number:

R09183-0064

A&L Eastern Laboratories, Inc.

Account Number:

70594

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC

POB 562

REMINGTON, VA 22734

Grower: C E KUNATH JR/LUCEK

LUNENBURG

Submitted By: J B CRENSHAW

Farm I D:

Field I D:

SOIL ANALYSIS REPORT

Page: 2 Date Received: 7/2/2009 Date of Analysis: 7/3/2009 Date of Report: 7/7/2009 Mehlich III

	1000000		Or	ganic	Matter			Phospho	orus		Potas	sium	Magnes	ium	Calciu	ım	Sodiu	Sodium pH		Acidity	C.E.C.	
Sample Number	Lat Numb		%		ENR bs/A R		vailal m		Reser	ve Rate	K ppm	Rate	MG ppm	Rate	CA ppm	Rate	NA ppm		Soil pH	Buffe		meq/100g
6	1326	52	2.4		87	L 1	6	L			61	L	153	Н	895	М			5.5	6.7		8.0
																						i i
Sample		75. July 1	2007 1000	TOTAL MERCEN	turation	CHEST WARREND	0.0025.005	Nitrate	A STATE OF THE PARTY OF THE PAR	ulfur	Constitution of	nc	Mangane	se	Iron		Copper	В	oron	Soluble	Chloride	Aluminum
Number	K %	Mg %		Ca %	Na %	Н %	pp	NO3-N m Rat	NOT AMOUNTAINED DEC.	04-S Rate	ppm	图16000000000000000000000000000000000000	MN ppm F	Rate	FE ppm Rat	te pr	CU om Rate	ppr	B n Rate	Salts ms/cm Ra	CL e ppm Rate	AL ppm Rate
6	2.0	16.0	0 5	56.2		25.8																
									132								- #7 - #7					

ALE-Soil

Values on this report represent the plant available nutrients in the soil.

Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).

ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).

Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:

A & L EASTERN LABORATORIES, INC.

by:

Paul Chu, Ph.D.

Report Number: R09183-0064 Account Number: 70594

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond, Virginia (804) 743-9401 Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



To: RECYC SYSTEMS INC

POB 562

REMINGTON, VA 22734

For: C E KUNATH JR/LUCEK

LUNENBURG

Copy To: J B CRENSHAW

Attn: SUSAN TRUMBO

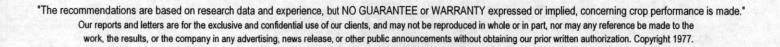
Date Received: 07/02/2009 Date Reported: 07/07/2009

SOIL FERTILITY RECOMMENDATIONS

Page: 11

Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P205 Ib/A	Potash K2O Ib/A	Magnesium Mg Ib/A	Swlffur S Ib/A	Zinc Zn Ib/A	Maggases Mh Ib/A	Fe Ib/A	Compae Cu Ib/A	Bonton B Ib/A
1	Adj pH To 6.8		2.8	0	0	0	0						
2	Adj pH To 6.8		2.5	0	0	0	0						
3	Adj pH To 6.8		2.5	0	0	0	0						
4	Adj pH To 6.8		2.3	0	0	0	0						
5	Adj pH To 6.8		2.3	0	0	0	0					100	

....



Paul Chu, Ph.D.

Report Number: R09183-0064 Account Number: 70594

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond, Virginia (804) 743-9401 Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



To: RECYC SYSTEMS INC

POB 562

REMINGTON, VA 22734

For: C E KUNATH JR/LUCEK

LUNENBURG

Copy To: J B CRENSHAW

Attn: SUSAN TRUMBO

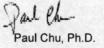
Date Received: 07/02/2009 Date Reported: 07/07/2009

SOIL FERTILITY RECOMMENDATIONS

Page: 22

Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P205 Ib/A	Potash K20 Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Mangaaess Mn lb/A	Iron Fe Ib/A	Copper Cu Ib#A	Boron B Ib#A
6	Adj pH To 6.8		2.3	0	0	0	0						

ALE-Re



[&]quot;The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization. Copyright 1977.

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Fall, 2009-Winter, 2010) Charles E Kunath Jr Planner: Recyc Systems

Tract: 15781

Location: Lunenburg

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

11 - 11 based, 11 - 1			Dased at 1.5 Telliov	ai, 01 - 110 i ai	iovveu)					· · · · · · · · · · · · · · · · · · ·	·		· · · · · · · · · · · · · · · · · · ·
Field	Size	Yr.	Crop	Needs	Leg	Manure/Biosld	IT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No.	(ac)]		N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	Р	N-P-K		
/Name	Total/	1		(lbs/ac)	Resid	(season)		(lbs/ac)	(lbs/ac)	rem	(lbs/ac)	1	1
	Used			L					<u> </u>	cred	1		1
0/LUCKE 5(N)	7/7	2009	Fescue hay estb.	40-130-130	0/0				40-130-130	N/A			
		2010	Fescue grass hay	70-50-95	0/0				70-180-225	N/A			1
			mt.		L		L						1

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3718 Location: Lunenburg (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Сгор	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/BiosId Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (Ibs/ac)	Notes	
2 4/LUCEK 1(N)	22/22	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A		T	Ī
1/LUCEK 2(N)	26/26	2009	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3731 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field	Size	Yr.	Crop	Needs	Leg	Manure/BiosId	IT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No.	(ac)		,	N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	P	N-P-K	1	
/Name	Total/			(lbs/ac)	Resid	(season)	1.	(lbs/ac)	(lbs/ac)	rem	(lbs/ac)	1	
	Used				ŀ	}				cred		1	
1/LUCEK 3(N)	4/4	2009	Fescue hay estb.	40-140-130	0/0				40-140-130	N/A	-		
		2010	Fescue grass hay	70-60-95	0/0		-		70-200-225	N/A		1	
	<u> </u>	}	mt.									1	
1/LUCEK 4(N)	26/26	2009	Hay/Pasture	100-40-70	0/0				100-40-70	N/A		1	
2/LUCEK 6(N)	13/13	2009	Fescue hay estb.	40-150-140	0/0				40-150-140	N/A			
		2010	Fescue grass hay	70-70-110	0/0				70-220-250	N/A			
			mt.										

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

Charles E Kunath Jr Narrative

The Charles E Kunath Jr. Site is located in Lunenburg County. The farm consists of hay and pasture land.

This partial plan is written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
15781	LUCKE 5	7	2009-Su	M (35 P ppm)	M (80 K ppm)	A&L MIII	5.3	• •	
3718	LUCEK 1	22	2009-Su	M (35 P ppm)	M (80 K ppm)	A&L MIII	5.3		
3718	LUCEK 2	26	2009-Su	H- (47 P ppm)	M (99 K ppm)	A&L MIII	5.2		
3731	LUCEK 3	4	2009-Su	M- (22 P ppm)	M (87 K ppm)	A&L MIII	5.3		
3731	LUCEK 4	26	2009-Su	H- (54 P ppm)	H- (136 K ppm)	A&L MIII	5.4		
3731	LUCEK 6	13	2009-Su	L+ (16 P ppm)	M- (61 K ppm)	A&L MIII	5.5		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalifa	Grass Hay	Environmental Warnings
15781	15781/0	LUCKE 5	7	Georgeville	IVb	IV II	111	IV	
3718	3718/2 4	LUCEK 1	22	Georgeville	IVb	IV II		IV	
	3718/1	LUCEK 2	26	Georgeville	IV b	IV II	Ш	IV	
3731	3731/1	LUCEK 3	4	Georgeville	IVb	IV II	111	IV	
	3731/1	LUCEK 4	26	Georgeville	IVb	IV II	III	IV	
	3731/2	LUCEK 6	13	Georgeville	IV b	IV II	Ш	IV	

Yîeld Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/lintensive Wheat Bul/Acre	Std. Wheat Bu/Acre	Alfalifa Tons//Acre	Grass//Hay Tons//Acre
h	≥17 0	>80	≽6 4	≽ 6	≽4.0
11	150-170	70-80	5 6-6 4	4-6	3.5-4.0
III	130-150	60-70	48-56	≼4	3.0-3 .5
IV	100-130	50-60	40-48	NA	≪3 .0
V	€100	≤50	≼4 0	N A	N A

Farm Summary Report

Plan:

New Plan

Fall, 2009 - Winter, 2010

Farm Name:

Charles E Kunath Jr

Location:

Lunenburg

Specialist:

Recyc Systems

Tract Name:

15781

FSA Number:

15781

Location:

Lunenburg

Field Name:

LUCKE 5

Total Acres:

7.10 Usable Acres: 7.10

FSA Number: 0

В

Tract: 15781

Location:

Lunenburg

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

Κ

Lab

Su-2009

5.3

M(35 P ppm)

M(80 K ppm)

A&L MIII

Field Warnings:

Tract Name:

3718

FSA Number: 3718

Location:

Lunenburg

Field Name:

LUCEK 1

Total Acres:

21.50 Usable Acres: 21.50

FSA Number: 24

3718

Tract: Location:

Lunenburg

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

РΗ Р Κ

Lab

Su-2009

5.3

M(35 P ppm)

M(80 K ppm)

A&L MIII

Field Warnings:

Field Name:

LUCEK 2

Total Acres:

25.70 Usable Acres: 25.70

FSA Number: 1

Tract:

3718

Location:

Lunenburg

Slope Class:

С

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P

K

Lab

Su-2009 5.2 H-(47 P ppm) M(99 K ppm)

A&L MIII

Field Warnings:

Tract Name: 3731 FSA Number: 3731

Location:

Lunenburg

Field Name: LI

LUCEK 3

Total Acres: 3.50

Usable Acres: 3.50

FSA Number: 1 Tract: 3731

action

Location:

Lunenburg

Slope Class: B

Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P

K

Lab

Su-2009

5.3 M-(22 P ppm)

M(87 K ppm)

A&L MIII

Field Warnings:

Field Name:

LUCEK 4

Total Acres:

25.80 Usable Acres: 25.80

FSA Number: 1

Tract:

3731

В

Location:

Lunenburg

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Κ

Lab

Su-2009

PH 5.4

H-(54 P ppm)

H-(136 K ppm)

A&L MIII

Field Warnings:

Field Name:

LUCEK 6

Total Acres:

13.30 Usable Acres: 13.30

FSA Number: 2

Tract:

3731

Location:

Lunenburg

Slope Class:

В

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH Κ Lab

Su-2009 5.5 L+(16 P ppm) M-(61 K ppm) A&L MIII

Field Warnings:

Tract Name: Default Tract

FSA Number: 0

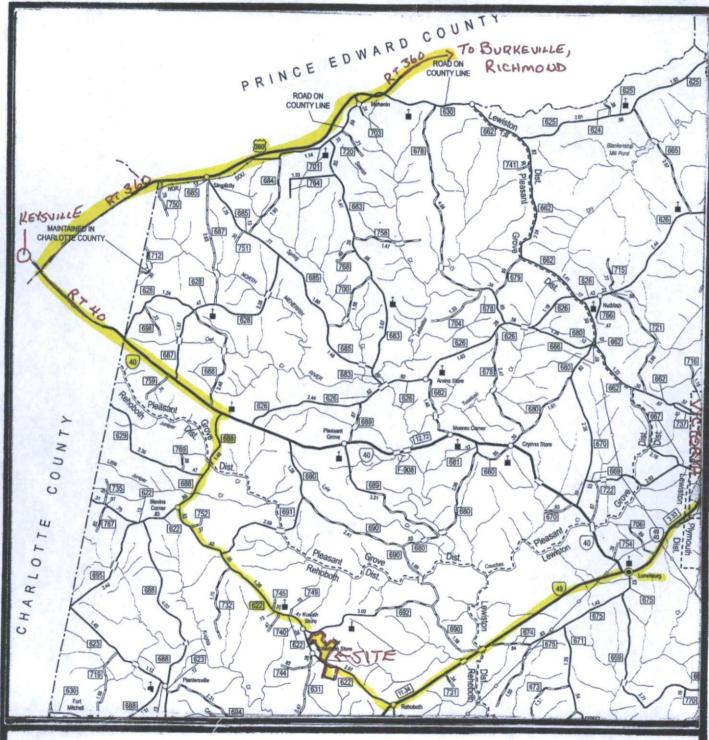
Location:

Lunenburg

MAPS

(Biosolids Land Application)



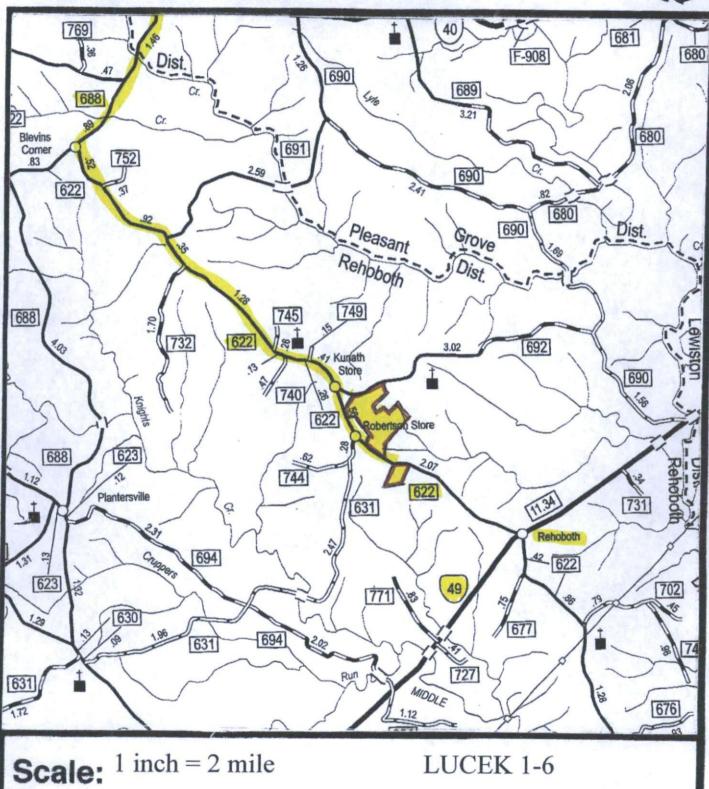


Scale: 1 inch = 2 miles

LUCEK 1-6

(Biosolids Land Application)

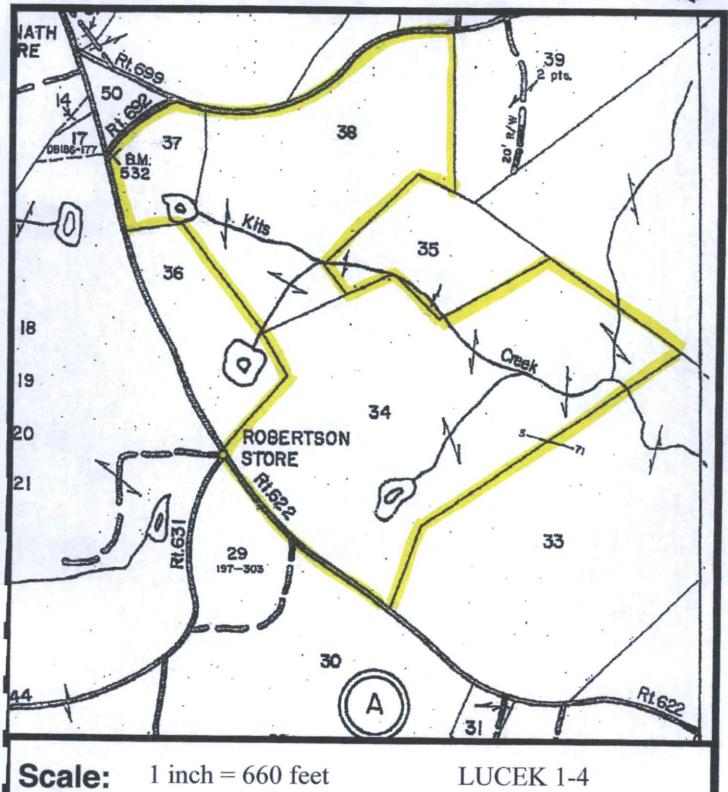




VICINITY MAP

(Biosolids Land Application)



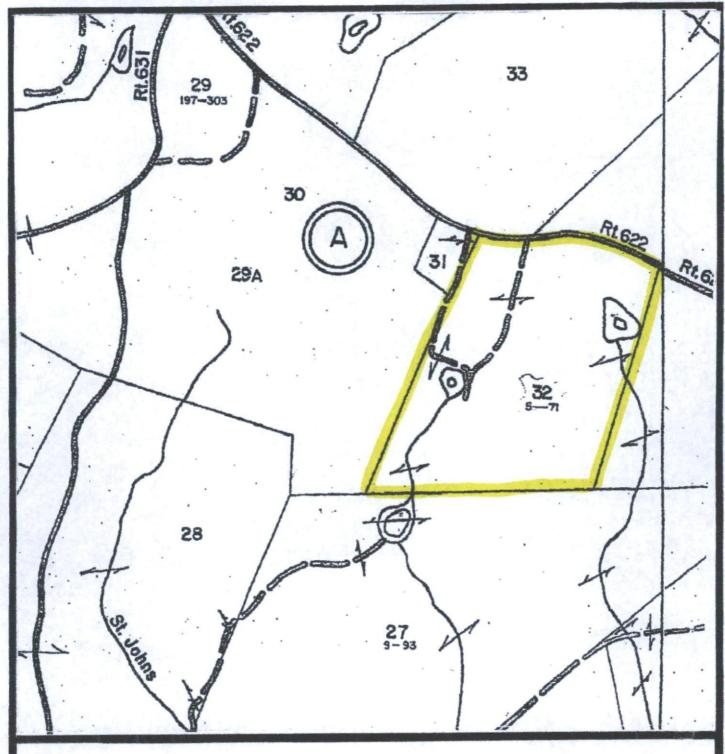


TAX MAP

N A

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUCEK 5-6

ADJOINING LANDOWNERS

CHARLES E. KUNATH, JR. Site

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
41A	18-21	N. Harvey Jeter
ł	21A	Anna Butner Jeter
ļ	27-28	Nathaniel B. Pennington, etal
	29	David L. or Gracita A. Francesconi
	29A	N. Harvey or Melba C. Jeter
	31	N. Harvey Jeter
į	33	Velma Harding Pennington
	35	Statewide Realty Company
	36	Edward H. Jeter
	39	J. A. Devin, Jr.
	41	Charles R. Slayton
	42	William G. or Irene G. Hample
	45-49	Charles R. Slayton
	50	Kerwin Glenn Kunath
42A	10	Linda Carol Kunath Brooks

(Biosolids Land Application)





Scale: 1 inch = 660 feet

LUCEK 1-4

(Biosolids Land Application)





Scale: 1 inch = 660 feet

LUCEK 5-6

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUCEK 1-2

(Biosolids Land Application)





Scale: 1 inch = 660 feet

LUCEK 3-6

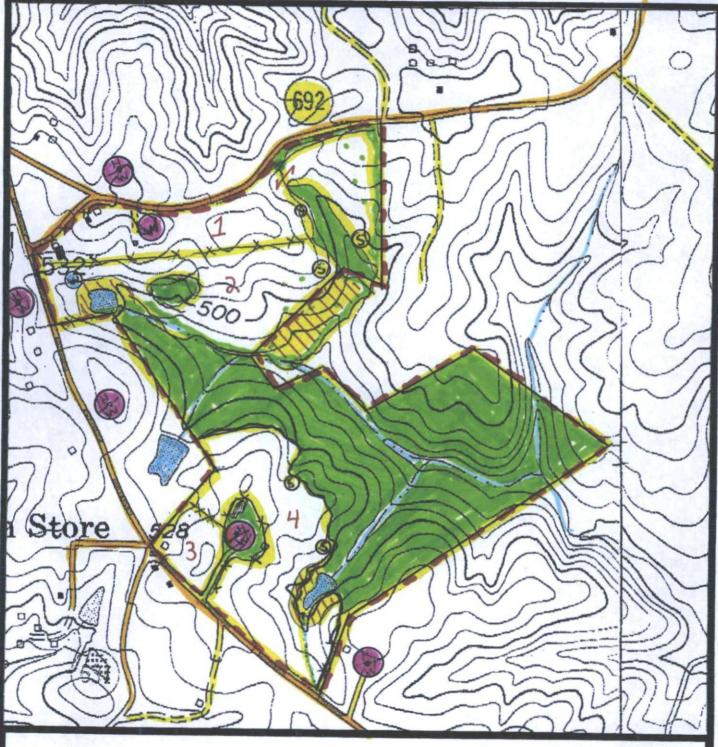
Legend for Site Plan

House and Well Well / Spring Perennial Streams & Surface Wet Spot Intermittent Stream / Drainage Trees and Woods Private Drive Rock / Rocky Area Sinkhole Severely Eroded Spot State Road Field Boundary / Fence **Property Line** Slope

Frequent Flooded Soil

(Biosolids Land Application)





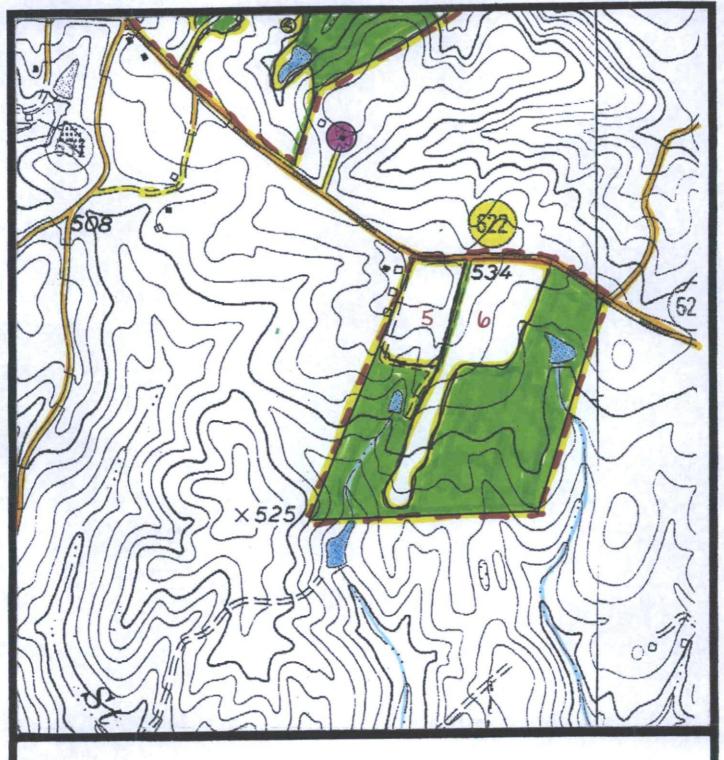
1 inch = 660 feet

Scale:

LUCEK 1-4

(Biosolids Land Application)



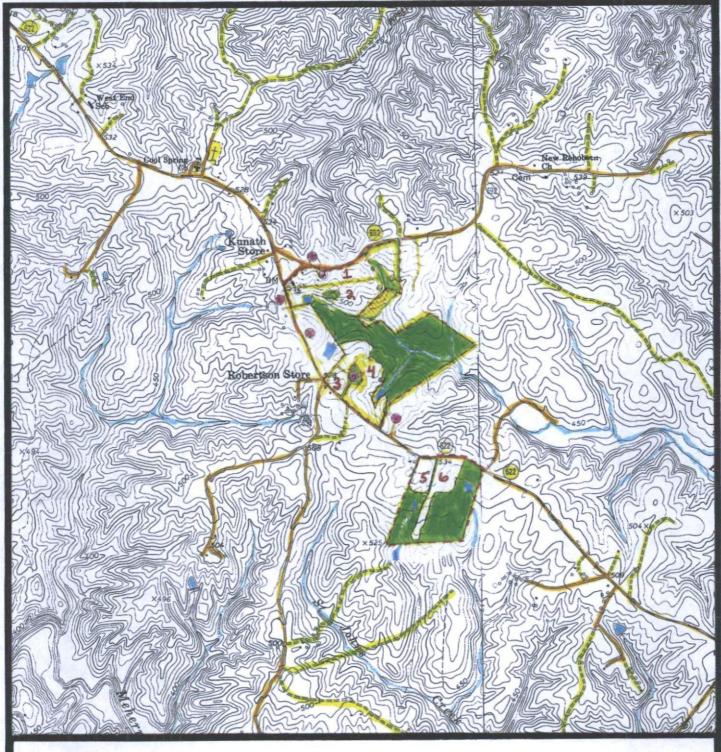


Scale: 1 inch = 660 feet

LUCEK 5-6

(Biosolids Land Application)





Scale: 1 inch = 2000 feet

LUCEK 1-6